

### **RFRI CONDUCTS OTHER STAKEHOLDERS' TRAINING**

**Rain Forest Research Institute, Jorhat (Assam)** organized a three-day training programme on “Forestry in Addressing Livelihood Issues of People of North Eastern States” sponsored by Ministry of Environment, Forest & Climate Change, Govt. of India from 6<sup>th</sup>-8<sup>th</sup> September, 2017. A total of 32 participants from different sectors such as JFMC, SHG, NGO, Entrepreneur, Teacher, College student, Advocate, Progressive Farmer, Media etc participated in the training programme.

The training was inaugurated by Dr. R.S.C. Jayaraj, IFS, Director of the Institute on 06<sup>th</sup> September, 2017. In his welcome address, Dr. R.S.C. Jayaraj, appealed to the participants to involve in activities on enhancement of sustainable livelihood by utilizing potential forestry resources through which scoping generation of employment and human development. Shri R. K. Kalita, Scientist-E and Course Director of the training explained the objectives of the training and briefed about various activities of the programme.



Dr. R.S.C. Jayaraj delivered a presentation on 'Forestry in addressing livelihood issues in North Eastern India –An overview'. He focused on the major issues of Assam such as poverty, unemployment, children drop out from schools, poor children health, and prevalent environment issues (floods, soil erosion, sand deposition in agricultural land), gender inequity and decreasing forest resources and their relationships with livelihood issues. He discussed on the role of forestry sector in gainful employment generation through sustainable utilization of certain potential resources such as bamboo resources, agarwood, broom grass, forest silk, non-timber forest produce (e.g. lac, honey, medicinal plants and wild edible mushrooms). He also addressed the participants to take up activities on conservation of wetlands, restoration of degraded forests in *jhum* lands, plantation of important bamboo species along the natural streams for soil stabilization and flood control. He had drawn attention of the participants on the linkages amongst poverty, unemployment,



children drop out from schools, poor children health, and prevalent environment issues with sustainable utilization of forestry resources for livelihood generation, gainful employment and better children health. The presentation covered various aspects of forestry based livelihood opportunities and human development in Assam.

Dr. T.C. Bhuyan, Scientist (Retd.), RFRI, delivered a presentation on “Prospect of Bamboo and Cane based Entrepreneurship Development”. He explained the scope of entrepreneurship development, division of labour, profit sharing and market potential of bamboo and cane based industries. He emphasized on skill development, value addition, employment opportunities, role of sectoral industries with respect to bamboo and rattans. Development of Common Facility Centres, local talent encouragement, product development as well superior plant selection for raw material generation was also discussed.



Dr. R. K. Borah, Scientist F, RFRI, Jorhat delivered a comprehensive presentation on “Agarwood based Livelihood Options” where he emphasized on nursery techniques, cultivation of *Aquilaria malaccensis*, insect pest diseases of agar trees and their control measure through scientific methods. The presentation covered various aspects such as natural agarwood formation, artificial agarwood induction using physical, chemical and biological methods. He also emphasised on agarwood research in India and other countries, agar based high value agro forestry practices, market potential, harvesting methods, cost-benefit ratio and employment opportunities.



Dr. B. K. Singh, Director (Retd.), Central Muga Eri Research & Training Institute, Lahdoigarh, Jorhat made a presentation on “Silk Resources of North East India and their role in sustainable rural development”. Dr. Singh shared his vast



research experience on Sericulture and introduction of Eri based sericulture in Uttar Pradesh, Uttarakhand, Jharkhand, Maharashtra and Bihar. He explained silk economics, silk industry, rich biodiversity and food plants of sericogenous insects; followed by host plants as well as cost-benefit analysis of Eri and Muga cultures. He shared the research and extension activities of CMER&TI for massive popularization of sericulture based social forestry, product diversification, skill development and livelihood opportunities.

The participants visited Bamboo Composite Centre, RFRI Nurseries and Bambusetum. Shri R. K. Kalita, Scientist E, Dr. T.C. Bhuyan, Scientist (Retd.), Sri Debojit Neog, Sri Kumud Borah of RFRI explained the bamboo based handicraft, research training and extension activities of RFRI, nursery techniques for cultivation and propagation of different bamboo species and maintenance as well as conservation of Bamboo germplasm in Bambusetum.



On the second day of training programme (07<sup>th</sup> September, 2017), a field visit was arranged for the participants to CMER&TI, Lahdoigarh; Garopaban Joint Forest Management site, Geleki, Sivasagar and Sivasagar Bamboo Cluster, Bokota, Nemuguri. The participants were exposed to various forestry based activities for rural livelihood generation during the field tour.



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On the third day of the training programme (08<sup>th</sup> September, 2017) Dr. N. D. Barthakur, Scientist B, RFRI delivered a presentation on “Prospect of Lac cultivation and Processing for Livelihood Generation”. She discussed various research and training programmes undertaken by the Institute for cultivation of lac insect using different host plants belonging to different geographic locations of North East India. The presentation covered lac cultivations methods, sustainable harvesting, processing of lac, uses in different sectors (Medicine, cosmetic etc), market potential and livelihood opportunities.



Dr. S.P. Saikia, Scientist, CSIR-NEIST, Jorhat delivered a presentation on “Entrepreneurship development through CSIR-NEIST technologies”. Initiating his talk with the thought, “Forests in order to make it carbon neutral”, he showcased various CSIR-NEIST technologies developed and transferred to user groups across the country as liquid deodorant, solid deodorant, bio formulation for bamboo and wood care, banana fibre and products, low-dust chalk pencil, wax crayon pencil, TP-16 bio-fertilizer for increasing crop yield, hand-made paper, herbal mosquito repellent incense sticks, candle, High yielding varieties of Citronella (Jor Lab C-5) and Lemon grass (Jor Lab L-8), herbal antifungal formulation for domestic animals for dermal infection & housefly infestation, herbal anti-acne face cream, Bioremediation technology of crude oil contaminated sites, herbal anti-mould black shoe polish, anti-arthritis and fungi-destruct product, vermicomposting





and mushroom cultivation. He also highlighted the success stories with respect to vermicomposting and mushroom cultivation; apart from initiation of Rural Technology Demonstration Centre at CSIR-NEIST “CSIR Aroma Mission” focussed on mass cultivation of lemon grass, citronella and patchouli along with setting up of distillation units in different sites of North East India.

Dr. S. A. Ahmed, Scientist, CMER&TI, Lahdoigarh delivered a talk on “Cluster development in Bamboo and Sericulture sector”. He discussed about the opportunities, threats, stakeholders, advantages and stages of cluster development. Illustrating the Indian MSME cluster scenario, he opined that State intervention is indispensable with respect to cluster development and enlisted certain government funded schemes for benefit of the participants.

Shri Bhabesh Gogoi, Assistant Professor, Assam Agricultural University, Jorhat delivered a presentation on “Agroforestry in rural development”. He discussed the aims and objectives, promotion of agro-forestry, impacts, choice of species and various agro forestry models prevalent in North East India. He also emphasized on certain bamboo based agroforestry models, viz.-bamboo-mango-ginger, bamboo-mushrooms, bamboo-medicinal plants, bamboo-*Gmelina arborea*, bamboo-*Gmelina arborea-Cajanus cajan*-Turmeric/ Ginger etc and income generation through agro forestry practices.



Mr. Vaiphei, District Development Manager, NABARD, Jorhat delivered a presentation on “Role of NABARD in rural development”. Since the inception of NABARD in 1982, he emphasized its role in promoting rural development and described about the structure, objectives, activities, advantages, functioning of Self Help Groups (SHGs) for self employment. In addition to SHGs formation, he also described about Joint Liability Groups for self-employment in rural areas along with Diary Entrepreneurship development schemes of Govt. of India and appealed to the participants to take advantage and disseminate information of such schemes for promoting livelihood in rural areas.



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Mrs. Meghalee Bora, Proprietor of Meghalee Food Products, Jorhat, shared her success stories on entrepreneurship development in food processing sector. In her interaction with the trainees, she recollected her journey from development of a food processing industry in Jorhat to dreams of opening up a food chain, Meghalees'. In her voyage, she has been awarded for her persistent efforts in setting up of an indigenous industry. Presently, she is engaged in imparting various training programmes on food processing and fast food preparation under government sponsored schemes of skill development in Assam.



Dr. Indrani P. Bora, Scientist, RFRI, Jorhat made a presentation on “Broom Grass Cultivation and Its Role in Income Generation”. She discussed broom grass cultivation practices undertaken by RFRI in degraded *jhum* Lands of Ri-Bhoi district, Meghalaya economic potential, intercropping patterns, harvesting technologies, cost-benefit analysis as well as value addition of Broom grass (*Thysanolaena maxima*). RFRI interventions on broom grass yield improvement, SWOT analyses through PRA were also highlighted. She appealed the participants to adopt the technologies of RFRI in order to establish broom grass based livelihood options in their respective areas.



The training programme was concluded with the thought sharing and feed back by the participants, certificate distribution and valedictory speech by Dr. R.S.C. Jayaraj, Director, RFRI, Jorhat.





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Shri R. K. Kalita, Course Director proposed the customary vote of thanks to all the resource persons and participants.



যোৰহাট দেওবাৰ ২৪ ভাদ ১৯৩৯ শক

= দৈনিক জনমভূমি

আঞ্চলিক

## বৰ্ষাৰণ্য গৱেষণা প্ৰতিষ্ঠানত তিনিদিনীয়া প্ৰশিক্ষণৰ সামৰণি

যোৰহাট : ৯ ছেপ্টেম্বৰ : যোৰহাটৰ বৰ্ষাৰণ্য প্ৰতিষ্ঠানে ভাৰত চৰকাৰৰ বন, পৰিৱেশ তথা জলবায়ু পৰিৱৰ্তন মন্ত্ৰালয়ৰ অৰ্থ-সাহায্যত উত্তৰ-পূৰ্বাঞ্চলৰ আৰ্জীৱিকা বৃদ্ধিৰ ওপৰত আয়োজন কৰা প্ৰশিক্ষণ কাৰ্যসূচী যোৱা ৮ ছেপ্টেম্বৰত সামৰণি পৰে। ৬ ছেপ্টেম্বৰৰ পৰা আৰম্ভ হোৱা এই প্ৰশিক্ষণ কাৰ্যসূচীত অসমৰ বিভিন্ন ক্ষেত্ৰৰ পৰা অহা ৩২ জন প্ৰশিক্ষাৰ্থীয়ে ভাগ লয়। প্ৰশিক্ষণ কাৰ্যসূচীত আৰণ্যক, বালিপাৰা ফাউণ্ডেশ্যন, সেৱা, স্নেহপদ, ৰেঙণি, মানাহ, অভয়াৰণ্য, কাজিৰঙা অভয়াৰণ্যত থকা ডব্লিউ ডব্লিউ এফ, নীডছ, তিনিচুকীয়াৰ সূৰ্যোদয়, শিক্ষক, ছাত্ৰ-ছাত্ৰী, গাঁও পঞ্চায়তৰ সদস্য, সংবাদকৰ্মী আদিয়ে অংশগ্ৰহণ কৰে। প্ৰশিক্ষণ কাৰ্যসূচী শুভাৰম্ভ কৰে বৰ্ষাৰণ্য গৱেষণা প্ৰতিষ্ঠানৰ সঞ্চালক ড° আৰ এছ চি জয়ৰাজে অসম তথা উত্তৰ-পূৰ্বাঞ্চলত থকা বিভিন্ন প্ৰাকৃতিক সম্পদবোৰ কেনেদৰে সদ্ভাৱে ব্যৱহাৰ কৰি এই

অঞ্চলৰ ৰাইজ অৰ্থনৈতিকভাৱে স্বাবলম্বী হ'ব পাৰে তাৰ আলোকপাত কৰে। বাঁহ সম্পদৰ ব্যৱহাৰ আৰু এই সম্পদৰ জৰিয়তে আমাৰ উঠি অহা চাম কেনেদৰে সংস্থাপিত হ'ব পাৰে তাৰ প্ৰশিক্ষণ প্ৰদান কৰে তিলক চন্দ্ৰ ভূঞাই। লাহদৈগড়ত অৱস্থিত কেন্দ্ৰীয় মুগা এৰী গৱেষণা তথা প্ৰশিক্ষণ প্ৰতিষ্ঠানৰ সদ্য অৱসৰপ্ৰাপ্ত সঞ্চালক ড° বি কে সিঙে অসমৰ ৰেচম শিল্পৰ সম্পৰ্কে অৱগত কৰে। সাঁচি গছৰ খেতি তথা কৃত্ৰিমভাৱে আগৰ তেল কেনেদৰে উৎপাদন কৰিব পাৰি তাৰ তথ্যসহ প্ৰশিক্ষণ আগবঢ়ায় ড° ৰাজীৱ কুমাৰ বৰাই। লা-গছৰ খেতি, ৰাডু গছৰ খেতি, বাঁহ তথা চৰচম ক্লাছটাৰ গঠন, কৃষি বনানীকৰণ আদিৰো প্ৰশিক্ষণ আগবঢ়োৱা হয়। উত্তৰ-পূৰ্বাঞ্চলৰ গৱেষণাৰ বিজ্ঞানী ড° এছ পি শইকীয়াই এই প্ৰতিষ্ঠানৰ দ্বাৰা উদ্ভাৱিত বিভিন্ন প্ৰযুক্তি কৌশলৰ প্ৰশিক্ষণ আগবঢ়ায়। যোৰহাটৰ নাৰাডৰ বিষয়া

ভেইপিয়ে বেংকৰ জৰিয়তে যুৱকসকল কেনেদৰে উপকৃত হ'ব পাৰে, তাৰ বিষয়ে বিৱৰি কয়। যোৰহাট মেঘালী ফুড প্ৰডাক্টৰ গৰাকী মেঘালী বৰাই নিজৰ অভিজ্ঞতা বিষয়ে অৱগত কৰে আৰু যুৱক-যুৱতীসকলক সদ্ভাৱে একনিষ্ঠভাৱে কাম কৰি যাবলৈ উদগনি যোগায়। প্ৰশিক্ষণ কাৰ্যসূচীৰ অংশ হিচাপে যোৰহাটৰ লাহদৈগড়ত থকা কেন্দ্ৰীয় মুগা এৰী গৱেষণা তথা প্ৰশিক্ষণ প্ৰতিষ্ঠান, শিৱসাগৰ গেলেকীত থকা গাৰোপৰন যৌথ বন পৰিচালনা সমিতিৰ দ্বাৰা পৰিচালিত বাঁহ, তিতাচপা, ঠুটেঙা, চোম বনানী আৰু বকতাৰ নেমুগুৰিৰ বাঁহ শিল্পৰ লগত জড়িত বিভিন্ন ব্যক্তিসকলে কৰি থকা কাম প্ৰদৰ্শন কৰোৱা হয়। প্ৰশিক্ষণৰ শেষত সকলো প্ৰশিক্ষাৰ্থীকে মানপত্ৰ প্ৰদান কৰা হয়। সমগ্ৰ প্ৰশিক্ষণ কাৰ্যসূচী সফলভাৱে পৰিচালনা কৰে বৰ্ষাৰণ্য গৱেষণা প্ৰতিষ্ঠানৰ বন সম্প্ৰসাৰণ বিভাগৰ মুৰব্বী ৰাজীৱ কুমাৰ কলিতাই।

The Dainik Janambhumi, 10-09-2017